

Title (en)

METHOD FOR TRACKING X-RAY MARKERS IN SERIAL CT PROJECTION IMAGES

Title (de)

VERFAHREN ZUR VERFOLGUNG VON RÖNTGENMARKERN IN SERIELLEN CT-PROJEKTIONSBILDERN

Title (fr)

PROCÉDÉ DE SUIVI DE REPÈRES RADIOGRAPHIQUES DANS DES IMAGES DE PROJECTION CT EN SÉRIE

Publication

EP 2504689 B1 20171011 (EN)

Application

EP 10833719 A 20100826

Priority

- US 62631009 A 20091125
- US 2010046836 W 20100826

Abstract (en)

[origin: US2011123080A1] A method and system of rapidly detecting and mapping a plurality of marker points identified in a sequence of projection images to a physical marker placed on a patient or other scanned object. Embodiments of the invention allow a marker physical mapping module executable by an electronic processing unit to obtain a sequence of images based on image data generated by a scanner. Each image in the sequence of images represents an angle of rotation by the scanner and includes a plurality of marker points each having a U position and a V position. Expected U and V positions for the physical marker are calculated and a list of candidate marker points is created based on the expected positions. The images are processed and selected candidate marker points are added to a good point list.

IPC 8 full level

G01N 23/04 (2006.01)

CPC (source: EP KR US)

A61B 6/032 (2013.01 - KR); **A61B 6/4085** (2013.01 - KR); **A61B 6/51** (2024.01 - KR); **A61B 6/5264** (2013.01 - KR);
A61B 6/583 (2013.01 - KR); **G06T 7/33** (2017.01 - EP KR US); **A61B 6/583** (2013.01 - EP US); **G06T 2207/10081** (2013.01 - EP KR US);
G06T 2207/30036 (2013.01 - EP KR US); **G06T 2207/30204** (2013.01 - EP KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

US 2011123080 A1 20110526; US 9082177 B2 20150714; CN 102770752 A 20121107; DK 2504689 T3 20171204; EP 2504689 A1 20121003;
EP 2504689 A4 20160622; EP 2504689 B1 20171011; JP 2013512037 A 20130411; JP 2014097400 A 20140529; JP 5739975 B2 20150624;
KR 101407125 B1 20140613; KR 20120098807 A 20120905; WO 2011066015 A1 20110603

DOCDB simple family (application)

US 62631009 A 20091125; CN 201080062365 A 20100826; DK 10833719 T 20100826; EP 10833719 A 20100826; JP 2012541075 A 20100826;
JP 2013262534 A 20131219; KR 20127016513 A 20100826; US 2010046836 W 20100826